

**CONTACT INFORMATION**

Professor  
International Centre for Materials Science & School of Advanced Materials  
Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR)  
Jakkur P.O., Bangalore 560064, INDIA

Email: [rajeshg@jncasr.ac.in](mailto:rajeshg@jncasr.ac.in)  
[rajesh.ganapathy@gmail.com](mailto:rajesh.ganapathy@gmail.com)

Phone: +91 80 2208 2572

**RESEARCH INTERESTS**

Soft and active matter: Colloidal and granular liquids, crystals, and glasses, active matter, shear-induced transitions, soft matter on non-Euclidean surfaces, surface growth, stochastic heat engines.

**EMPLOYMENT**

06/2021 - present	Professor, International Centre for Materials Science, JNCASR
06/2015 - 06/2021	Associate Professor, International Centre for Materials Science, JNCASR
06/2009 - 06/2015	Assistant Professor, International Centre for Materials Science, JNCASR
01/2007 - 05/2009	Postdoctoral Fellow, Dept. of Physics, Cornell University, Ithaca, NY, USA
06/1999 - 06/2000	Research Officer, Hindustan-Unilever Research Centre, Bangalore, INDIA

**EDUCATION**

06/2000 - 06/2006	Ph.D. in Physics, Indian Institute of Science, Bangalore, INDIA
06/1997 - 06/1999	M.Sc. in Physics, Indian Institute of Technology, Chennai, INDIA

**AWARDS AND RECOGNITIONS**

2024	Elected Fellow of the Indian Academy of Sciences, Bangalore, INDIA
2022	Featured in the coffee-table book "75 under 50 Scientists Shaping Today's India" by the Department of Science & Technology, Govt. of India.
2020	Shanti Swarup Bhatnagar Prize for Science and Technology (Physical Sciences)
2016	SwarnaJayanti Fellowship in Physical Sciences, Department of Science and Technology, Govt. of INDIA
2016	N S Satyamurthy Young Scientist Award 2014 of the Indian Physics Association
2016	Sheikh Saqr Career Research Award
2010	Elected as the Young Associate of the Indian Academy of Sciences, Bangalore, INDIA

**ACADEMIC SERVICE**

Journal referee for Nature Physics, PNAS, Science Advances, Nature Communications, Physical Review X, Physical Review Letters, ACS Nano, Physical review E, Journal of Chemical Physics, Physical Chemistry Chemical Physics, Langmuir, Soft Matter, European Physical Journal, Current Science and Scientific Reports

Research grant reviewer for Netherlands Organization for Scientific Research, Israel Science Foundation, Dept. of Science and Technology, Gol

## OTHER SERVICE

### Institute Service

- (2022 – present) Member Auditorium Committee, JNCASR, Bangalore, INDIA
- (2019 – 2023) Member of the Complab Committee, JNCASR, Bangalore, INDIA
- (2021 – 2022) Member ex-officio Academic Council, JNCASR, Bangalore, INDIA
- (2019 – 2021) Member of the JNC@30 Committee, JNCASR, Bangalore, INDIA
- (2017 – 2022) Member Internal Complaints Committee, JNCASR, Bangalore, INDIA
- (2014 – 2022) Member of the Safety Committee, JNCASR, Bangalore, INDIA
- (2018 – 2021) Member of the Purchase Committee, JNCASR, Bangalore, INDIA

### Department Service

- (2019 – 2022) Coordinator Integrated PhD Program in Materials Science, Chemistry and Physics of Materials Unit

## RESEARCH FUNDING

2022 – 2025	Imaging Soft Matter at the Nanoscale, Project fund - ₹1.64 Cr (USD ~ 200K), Core research grant - Science and Engineering Research Board, Govt. of INDIA
2017 – 2022	Glass Transition, Project fund - ₹1.6 Cr (USD ~ 230K), SwarnaJayanti Fellowship, Department of Science and Technology, Govt. of INDIA
2017 – 2020	Colloidal Epitaxy, Project fund - ₹1.8 Cr (USD ~ 250K), Nanomission Grant Department of Science and Technology, Govt. of INDIA

## SELECTED RESEARCH PUBLICATIONS

- Harnessing Viscoelasticity to Suppress Irreversibility Build-up in a Colloidal Stirling Engine  
Niloyendu Roy, A K Sood and [Rajesh Ganapathy](#)  
**Phys. Rev. Lett. 131, 238201 (2023)**
- Overcoming Power-efficiency Tradeoff in a Micro Heat Engine by Engineered System-bath Interactions  
Sudeesh Krishnamurthy, [Rajesh Ganapathy](#) and A K Sood  
**Nature Comm. 14, 6842 (2023)**
- Intermediate-range Order Governs Dynamics in Dense Colloidal Liquids  
Navneet Singh, Zhen Zhang, A K Sood, Walter Kob, and [Rajesh Ganapathy](#)  
**Proc. Natl. Acad. Sci. U.S.A. 120, e2300923120 (2023)**
- Direct Measurements of Surface Strain-mediated Lateral Interactions between Adsorbates in Colloidal Epitaxy  
Manodeep Mondal and [Rajesh Ganapathy](#)  
**Phys. Rev. Lett. 129, 088003 (2022)**  
Highlighted as Editor's Suggestion and featured in Physics as Synopsis
- Observation of Two-step Melting on a Sphere  
Navneet Singh, A K Sood, and [Rajesh Ganapathy](#)  
**Proc. Natl. Acad. Sci. U.S.A. 119, e2206470119 (2022)**
- Motile Topological Defects Hinder Dynamical Arrest in Dense Liquids of Active Ellipsoids  
Pragya Arora, A K Sood, and [Rajesh Ganapathy](#)  
**Phys. Rev. Lett. 128, 178002 (2022)**  
Highlighted as Editor's Suggestion and featured in Physics as Synopsis

- Tuning the Performance of a Micrometer-sized Stirling Engine by Reservoir Engineering  
Niloyendu Roy, Nathan Leroux, A K Sood, and [Rajesh Ganapathy](#)  
**Nature Comm. 12, 4927 (2021)**
- Emergent Stereoselective Interactions and Self-recognition in Polar Chiral Active Ellipsoids  
Pragya Arora, A K Sood, and [Rajesh Ganapathy](#)  
**Science Adv. 7, eabd0331 (2021)**
- Structure Determines Where Crystallization Occurs in a Soft Colloidal Glass  
Divya Ganapathi, Dibyashree Chakrabarti, A k Sood, and [Rajesh Ganapathy](#)  
**Nature Phys. 17, 114 (2021)**  
Covered by numerous media outlets, including Deccan Herald, The Week, and more
- Cooperatively Rearranging Regions Change Shape Near the Mode-coupling Crossover for Colloidal Liquids on a Sphere  
Navneet Singh, A K Sood, and [Rajesh Ganapathy](#)  
**Nature Comm. 11, 4967 (2020)**
- Role of Particle Orientational Order During Shear-thickening in Suspensions of Colloidal Rods  
Vikram Rathee, Srishti Arora, Dan Blair, Jeff Urbach, A K Sood, and [Rajesh Ganapathy](#)  
**Phys. Rev. E 101, 040601(R) (2020)**
- Cooperative Rearrangements Facilitate the Self-organised Growth of Colloidal Crystal Arrays on Strain-relief Patterns  
Manodeep Mondal, Chandan K Mishra, Rajdeep Banerjee, Shobhana Narasimhan, A K Sood, and [Rajesh Ganapathy](#)  
**Science Adv. 6, Issue 10, eaay8418 (2020)**
- Long-wavelength Fluctuations and Anomalous Dynamics in 2-Dimensional Liquids  
Yan-Wei Li, Chandan K. Mishra, Zhao-Yan Sun, Kun Zhao, Thomas G. Mason, [Rajesh Ganapathy](#), and Massimo Pica Ciamarra  
**Proc. Natl. Acad. Sci. U.S.A. 116, 22977 (2019)**  
Featured in numerous popular science outlets, including EureakAlert, PhysOrg, ScienceDaily, PopularMechanics
- Strength of Mechanical Memories is Maximal at the Yield Point of a Soft Glass  
Srimayee Mukherji, Neelima Kandula, A K Sood, and [Rajesh Ganapathy](#)  
**Phys. Rev. Lett. 122 158001 (2019)**  
Highlighted as Editor's Suggestion and featured on the cover of Apr 19<sup>th</sup>, 2019 Issue
- Measurements of Growing Surface Tension of Amorphous-Amorphous Interfaces on Approaching the Colloidal Glass Transition  
Divya Ganapathi, Hima K Nagamanasa, A K Sood, and [Rajesh Ganapathy](#)  
**Nature Commun. 9, 397 (2018)**
- Crystallization: Brought to the Surface  
[Rajesh Ganapathy](#) and Ajay K Sood  
News & Views  
**Nature Phys. 13, 421 (2017)**
- Site-specific Colloidal Crystal Nucleation by Template-enhanced Particle Transport  
Chandan K Mishra, A K Sood, and [Rajesh Ganapathy](#)  
**Proc. Natl. Acad. Sci. U.S.A. 113, 12094 (2016)**  
\*\*Media Coverage: The Hindu

- A Micrometer-sized Heat Engine Operating Between Bacterial Reservoirs  
Sudeesh Krishnamurthy, Subho Ghosh, Dipankar Chatterji, [Rajesh Ganapathy](#), and A K Sood  
**Nature Phys. 12, 1134 (2016)**  
\*\*Media Coverage: Nature India, Deccan Herald, The Hindu, Prajavani
- Deconstructing the Structural Glass Transition Through Critical Experiments on Colloids  
Shreyas Gokhale, A K Sood, and [Rajesh Ganapathy](#)  
**Adv. Phys. 65, 363 (2016)**
- Localised Excitations and the Morphology of Cooperatively Rearranging Regions in a Colloidal Glass-Forming Liquid  
Shreyas Gokhale, [Rajesh Ganapathy](#), Hima K Nagamanasa, and AK Sood  
**Phys. Rev. Lett. 116, 068305 (2016)**
- Shape of Dynamical Heterogeneities and the Fractional Stokes-Einstein and Stokes-Einstein Debye Relation in Quasi Two-Dimensional Suspensions of Colloidal Ellipsoids  
Chandan K Mishra and [Rajesh Ganapathy](#)  
**Phys. Rev. Lett. 114, 198302 (2015)**
- Direct Measurements of Growing Amorphous Order and Non-monotonic Dynamic Correlations in a Colloidal Glass Former  
Hima K Nagamanasa, Shreyas Gokhale, A. K. Sood, and [Rajesh Ganapathy](#)  
**Nature Phys. 11, No 5, 365 (2015)**  
\*\* Featured as the cover page of Nature Physics (May 2015)  
\*\* Media coverage: Deccan Herald, Rajyasabha TV
- Dynamical Facilitation Governs Glassy Dynamics in Suspensions of Colloidal Ellipsoids  
Chandan K Mishra, Hima K Nagamanasa, [Rajesh Ganapathy](#), A. K. Sood, and Shreyas Gokhale  
**Proc. Natl. Acad. Sci. U.S.A. 111, 15362, (2014)**  
\*\* Media coverage: Featured in The Telegraph
- Growing Dynamical Facilitation on Approaching the Random Pinning Colloidal Glass Transition  
Shreyas Gokhale, Hima K Nagamanasa, [Rajesh Ganapathy](#), and A. K. Sood  
**Nature Commun. 5, (2014)**
- Experimental Signatures of a Nonequilibrium Phase Transition Governing Yielding of A Soft Glass  
Hima K Nagamanasa, Shreyas Gokhale, A. K. Sood, and [Rajesh Ganapathy](#)  
**Phys. Rev. E 89, 062308 (2014)**
- Entropy Driven Crystal Formation on Highly Strained Substrates  
John R Savage, Stefan R Hopp, [Rajesh Ganapathy](#), Sharon Gerbode, Andreas Heuer, and Itai Cohen  
**Proc. Natl. Acad. Sci. U.S.A. 110, 9301, (2013)**
- Grain Growth and Grain Boundary Dynamics in Colloidal Crystals  
Shreyas Gokhale, Hima K Nagamanasa, [Rajesh Ganapathy](#), and A. K. Sood  
**Soft Matter 9, 6634 (2013)**  
\*\* Invited contribution towards Themed Issue on Emerging Investigators in Soft Matter
- Two-step Glass Transition Induced by Attractive Interactions in Quasi-two-dimensional Suspensions of Ellipsoidal Particles  
Chandan K Mishra, Amritha Rangarajan, and [Rajesh Ganapathy](#)  
**Phys. Rev. Lett. 110, 188301 (2013)**
- Directional Grain Growth from Anisotropic Roughening of Grain Boundaries in Sheared Colloidal Crystals  
Shreyas Gokhale, Hima K Nagamanasa, V Santhosh, A. K. Sood, and [Rajesh Ganapathy](#)  
**Proc. Natl. Acad. Sci. U.S.A. 109, 20314 (2012)**  
\*\* Media coverage: Featured in articles in Deccan Herald and The Hindustan Times

- Confined Glassy Dynamics at Grain Boundaries in Colloidal Crystals  
Hima K Nagamanasa, Shreyas Gokhale, [Rajesh Ganapathy](#) and A. K. Sood  
**Proc. Natl. Acad. Sci. U.S.A. 108, 11323 (2011)**
- Direct Measurements of Island Growth and Step-edge Barriers in Colloidal Epitaxy  
[Rajesh Ganapathy](#), Mark R. Buckley, Sharon Gerbode, and Itai Cohen  
**Science 327, 445 (2010)**  
\*\* Media coverage: Featured in NSF News, Phys Org, Cornell Chronicle and numerous other media outlets
- Intermittency Route to Rheochaos in Wormlike Flow-Concentration Coupling  
[Rajesh Ganapathy](#) and A. K. Sood  
**Phys. Rev. Lett. 96, 108301 (2006)**

## INVITED TALKS

- (2023) CompFlu, Indian Institute of Technology, Madras, INDIA
- (2023) Active Matter in Complex Environments, International Centre for Theoretical Studies, Bangalore, INDIA
- (2023) Frontiers in the Physics of Soft and Biological Matter, Raman Research Institute, Bangalore, INDIA
- (2023) International Soft Matter Conference, Osaka, JAPAN (Keynote talk)
- (2023) Soft and Living Matter: From Fundamental Concepts to New Material Design, International Centre for Theoretical Studies, Bangalore, INDIA
- (2023) 9<sup>th</sup> IDMRCS Meeting, Chiba, JAPAN
- (2023) Statphys28, Tokyo, JAPAN
- (2023) Physics Colloquium, Harish-Chandra Research Institute, Allahabad, INDIA
- (2023) Aditi Simha Memorial Symposium on Soft and Active Matter, Indian Institute of Technology, Madras, INDIA
- (2023) Steady-state Phenomena in Soft Matter, Active and Biological Systems, S N Bose Institute, Kolkata, INDIA
- (2023) Aditi Simha Memorial Session, Department of Physics, Indian Institute of Science, Bangalore, INDIA
- (2023) Frontiers in Non-equilibrium Physics, Institute of Mathematical Sciences, Chennai, INDIA
- (2022) Dept. of Atomic Energy, Solid State Physics Symposium, BITS-Mesra, Ranchi, INDIA
- (2022) Winter School on the Physics and Chemistry of Materials, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2022) Experimental Applications of Stochastic Thermodynamics, Indian Institute of Technology, Mumbai, INDIA
- (2022) Current Directions in Statistical Physics, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2022) Distinguished Lecture, Vellore Institute of Technology, Vellore, Tamil Nadu, INDIA
- (2022) Soft and Active Matter Seminar, Indian Institute of Technology - Hyderabad, INDIA
- (2022) Lecture on Trans-disciplinary science by SSB Awardees, Deen Dayal Upadhyay College, Delhi, INDIA
- (2021) SYMPHY 2021, Department of Physics, Indian Institute of Technology, Mumbai, INDIA
- (2021) Winter School on the Physics and Chemistry of Materials, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2021) Annual Faculty Meet, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2021) Webinar, Soft Matter Group, Dept. of Physics, Univ. of Gothenburg, SWEDEN
- (2021) SS Bhatnagar Lecture Series, Indian Institute of Technology - Ropar, Punjab, INDIA
- (2020) Monthly Colloquium, International Centre for Theoretical Studies, Bangalore, INDIA
- (2020) Compflu-2020, Indian Institute of Technology, Mumbai, INDIA

- (2020) Weekly seminar, Dept. of Chemical Engineering, Indian Institute of Science, Bangalore, INDIA
- (2020) Institute Colloquium, Tata Institute of Fundamental Research, Mumbai, INDIA
- (2020) SAMat Special Lecture by SSB Prize Awardees, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2019) 15<sup>th</sup> JNCASR Conference on Chemistry of Materials, Allepey, Kerala, INDIA
- (2019) International Workshop on Glass Physics, Institute for Theoretical Physics-Chinese Academy of Sciences, Beijing, CHINA
- (2019) Discrete Simulations of Fluid Dynamics, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2019) SAMat Meet, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2018) Dept. of Atomic Energy, Solid State Physics Symposium, Hisar, Haryana, INDIA
- (2018) Annual Faculty Meet and In-house, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2018) CNR Rao Oration Award Lecture, JNCASR, Bangalore, INDIA
- (2018) Unifying Concepts in Glass Physics, Univ. of Bristol, Bristol, UK
- (2018) IBS-UNST Soft Matter Conference, IBS Ulsan, South Korea
- (2018) Raman Research Institute, Bangalore, INDIA
- (2017) Compflu-2017, Indian Institute of Technology-Madras, INDIA
- (2017) JNCASR-Cambridge Winter School on Frontiers in Materials Science, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2017) 7<sup>th</sup> Indo-Israeli Meeting on Frontiers in Condensed Matter Physics, Indian Institute of Science, Bangalore, INDIA
- (2017) Infosys Condensed Matter Physics Seminar, Tata Institute of Fundamental Research, Mumbai, INDIA
- (2017) CeNSE Department Seminar, Indian Institute of Science, Bangalore, INDIA
- (2017) Conference on Correlation and Disorder in Classical and Quantum Systems, International Centre for Theoretical Studies, Bangalore, INDIA
- (2017) Physics Department Seminar, Indian Institute of Science Education and Research Pune, Pune, INDIA
- (2017) Workshop on Glasses and Other Nonequilibrium Systems, Osaka University, Osaka Japan
- (2017) Physics Department Colloquium, Indian Association for the Cultivation of Sciences, Kolkata, INDIA
- (2016) Compflu-2016, International Institute of Information Technology, Hyderabad, INDIA
- (2016) Indo-French Meeting on Advances in Physics and Chemistry of Materials, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2016) Annual Meeting of the Indian Physics Association, Bhabha Atomic Research Centre, Mumbai, INDIA
- (2016) Contemporary Issues in Condensed Matter Physics, Dept. of Physics, Indian Institute of Science, Bangalore, INDIA
- (2016) International Workshop on Advanced Materials, RAK-CAM, Ras Al Khaimah, UAE
- (2016) Compflu-2015, Indian Institute of Science Education and Research, Pune, INDIA
- (2015) Growing Length Scale Phenomena in Condensed Matter, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2015) 10<sup>th</sup> JNCASR Conference on Chemistry of Materials, Allepey, Kerala, INDIA
- (2015) Physics Colloquium, Dept. Of Physics, Indian Institute of Science, Bangalore, INDIA
- (2015) New Colloids, Raman Research Institute, Bangalore, INDIA
- (2015) The Nonlinear Physics of Disordered Systems: From Amorphous Solids to Complex Flows, International Centre for Theoretical Sciences, TIFR, Bangalore, INDIA
- (2014) Compflu, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA

- (2014) 6th Indo-Israeli Meeting on Frontiers in Condensed Matter Physics, Tel Aviv, ISRAEL
- (2014) JNCASR-Cambridge Winter School on Directions in Materials Science, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2014) Engineering Mechanics Unit Colloquium, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2014) TIFR-Centre for Interdisciplinary Sciences, Hyderabad, INDIA
- (2013) 8<sup>th</sup> JNCASR Conference on Chemistry of Materials, Taj Vivanta, Trivandrum, Kerala, INDIA
- (2013) Indo-Israel Conference on Material Science and Nanoscience, Mahatma Gandhi University, Kottayam, Kerala, INDIA
- (2013) Indo-Australia Joint Workshop-II, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2012) Theoretical Sciences Unit Seminar, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2012) Cambridge UK-JNCASR Winter School on Frontiers in Materials Science, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2012) Annual Faculty Meet and In-house, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2012) J A Krumhansl School and Conference on Unifying Concepts in Materials Science, NCBS, Bangalore, INDIA
- (2011) 56<sup>th</sup> Solid State Physics Symposium - Department of Atomic Energy, SRM University, Chennai, Tamil Nadu
- (2011) Dynamics of Phase Transitions, JNCASR, Bangalore, INDIA
- (2011) Current Topics in Condensed Matter, IISER Kolkata, Kolkata, INDIA
- (2011) Indian Academy of Sciences 22<sup>nd</sup> Midyear Meeting, Indian Institute of Science, Bangalore, INDIA
- (2011) US-India-Israel Workshop on Soft & Hybrid Matter, Northwestern University, Chicago, U.S.A.
- (2010) Cambridge UK-JNCASR Winter School on the Physics and Chemistry of Materials, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2010) National Chemical Laboratories, Pune, INDIA
- (2010) Indira Gandhi Centre for Atomic Research, Kalpakam, INDIA
- (2010) ICAM-I2CAM Conference, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2009) Department of Chemistry, Indian Institute of Technology Madras, Chennai INDIA
- (2009) Chemistry of Materials conference, Allepey, Kerala, INDIA
- (2009) Raman Research Institute, Bangalore, INDIA
- (2008) International Centre for Materials Science, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA

### **INVITED OUTREACH TALKS**

- (2021) Delivering talks and writing papers, Karnataka Higher Education Academy Dharwad, Karnataka, INDIA
- (2020) Science Playground-2, Society for Promotion of Science and Technology in India, Haryana, INDIA
- (2020) Exploring Science with SSB Awardees, Popular Science Talk, Council of Scientific and Industrial Research, INDIA
- (2017) Program in Physics for Students, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2014) Program in Physics for Students, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA

- (2012) Program in Physics for Students, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2011) Inspire Fellowship Scholars, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2011) JBNSTS Scholars, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2010) Physics Day, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA
- (2010) National Science Day, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, INDIA

### **CURRENT Ph.D. STUDENTS**

- Jan 2022 - Present: Kamlesh Mishra
- Aug 2023 - Present: Pritam Kumar

### **CURRENT Integrated Ph.D. STUDENTS**

- Sept 2020 - Present: Uttam Tiwari

### **CURRENT M.S. Eng. STUDENTS**

- Aug 2023 - Present: Soumyadeep Das

### **RESEARCH ASSISTANTS**

- July 2022 - present: Alfred Rosario

### **POSTDOCTORAL ASSOCIATES SUPERVISED**

- Oct 2021 - Jan 2022: Sudeesh Krishnamurthy

### **PhD/Int. PhD STUDENTS SUPERVISED**

- Aug 2009 - Apr 2015: Dr. Hima Nagamanasa Kandula (*Recipient of the best PhD Thesis Award in Physical Sciences at JNCASR, 2016*)  
Presently an Assistant Professor at the University of Massachusetts at Amherst, USA
- Aug 2009 - Oct 2015: Dr. Shreyas Gokhale (*Recipient of the best PhD Thesis Award in Physical Sciences at IISC, 2017*)  
Jointly with Prof. Ajay Sood at Indian Institute of Science, Bangalore, INDIA. Presently a Postdoctoral Associate with Prof. Jeff Gore at Massachusetts Institute of Technology, Boston, USA
- Jan 2012 - Jun 2017: Dr. Chandan Mishra (*Recipient of the best PhD Thesis Award in Physical Sciences at JNCASR, 2017*).  
Presently an Assistant Professor at the Indian Institute of Technology, Gandhinagar, INDIA
- Aug 2015 - Jul 2022: Dr. Manodeep Mondal  
Presently a postdoctoral fellow in Prof. Benjamin Rogers's group at Brandeis University, Boston, USA
- Aug 2014 - Jul 2022: Dr. Divya Ganapathi  
Presently at Berkeley, USA
- Jan 2017 - Dec 2022: Dr. Navneet Singh  
Presently a postdoctoral fellow in Prof. Itai Cohen's group at Cornell University, NY, USA
- May 2018 - May 2023: Dr. Pragya Arora  
Presently a postdoctoral fellow in Prof. Seth Fraden's group at Brandeis University, Boston, USA



- Jun 2016 - Dec 2023: Mr. Niloyendu Roy (thesis defense yet to be done)  
Soon to join as a postdoctoral fellow in Prof. Clemens Bechinger's group at Uni. Of Konstanz

### **MS/MS ENGG. STUDENTS SUPERVISED**

- Jan 2012 - May 2013: Mr. Chandan K Mishra (*recipient of the best MS Thesis Award*)
- Aug 2012 - May 2014: Ms. Neelima Kandula
- Aug 2015 - May 2017: Ms. Srimayee Mukherji
- Jun 2016 - May 2018: Niloyendu Roy
- May 2018 - May 2020: Pragya Arora
- Aug 2018 - Aug 2021: Mohit Chaudhary
- Sept 2020 - May 2022: Uttam Tiwari

### **PGDMS STUDENTS SUPERVISED**

- Aug 2022 - Aug 2023: Parisha

### **RESEARCH ASSISTANTS SUPERVISED**

- Oct 2009 - Jun 2010: Ms. Mamta Raju Jotkar
- Jun 2011 - Jan 2013: Ms. Shrishti Arora

### **SUMMER RESEARCH FELLOWS SUPERVISED**

- May 2010 - Jun 2010: Ms. Amritha Rangarajan
- May 2010 - Jun 2010: Mr. N Rakul
- May 2011 - Aug 2011: Mr. Krishnand Mallayya
- May 2011 - Jun 2011: Ms. Jyothi Sharma
- Oct 2013 - Feb 2014: Mr. Pavan K Kaushik
- May 2014 - Jul 2014: Ms. Riya Samanta
- Nov 2014 - Jan 2015: Ms. R M Aishwarya
- May 2016 - Jul 2016: Ms. Shaniba Thottoli
- May 2016 - Jul 2016: Mr. Aashish Agarwal
- May 2017 - Jul 2017: Mr. Nathan Leroux
- May 2017 - Jul 2017: Mr. Yash Rana

### **ACADEMIC REFERENCES**

- Prof. Itai Cohen  
Department of Physics  
Cornell University  
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Ph: +1 607 255 0815  
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- Prof. Ajay K. Sood (FRS)  
Department of Physics  
Indian Institute of Science  
Bangalore 560012, India  
Ph: +91 80 22932964  
Email: [asood@physics.iisc.ernet.in](mailto:asood@physics.iisc.ernet.in)

- Prof. Sriram Ramaswamy (FRS)  
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